PROFESSIONAL SPEAKERS, AMPLIFIERS AND ACCESSORIES

Audiodesign Srl
Via dell'industria, 28 - 42025 CAVRIAGO (RE)
+39 0522 941444 - Fax +39 0522 942363
www.audiodesign-pro.com
info@audiodesign.it

OWNER MANUAL

PAMX1.24

PROFESSIONAL MIXER

Introduction

Congratulations on the purchase of a professional mixing console PAMX1.
The mic pre-amplifiers are of high quality level and ensure the best sound quality and a very high dynamic.

A low noise and distortion-less circuitry assures a natural and transparent reproduction.

Contents

Introduction ..... Pag 2
Precautions..... Pag 2
Conformity ..... Pag 2
Service ..... Pag 3
Quick start ..... Pag 3
Mono channel ..... Pag 4
Stereo channel..... Pag 5
Master section ..... Pag 6
Rear panel .. .. Pag 7
Connections..... Pag 7
Technical specifications..... Pag 8
Block diagram .. .. Pag 9
Set Up Memo .... Pag 10
Set Up Memo .... Pag 11

Precautions:

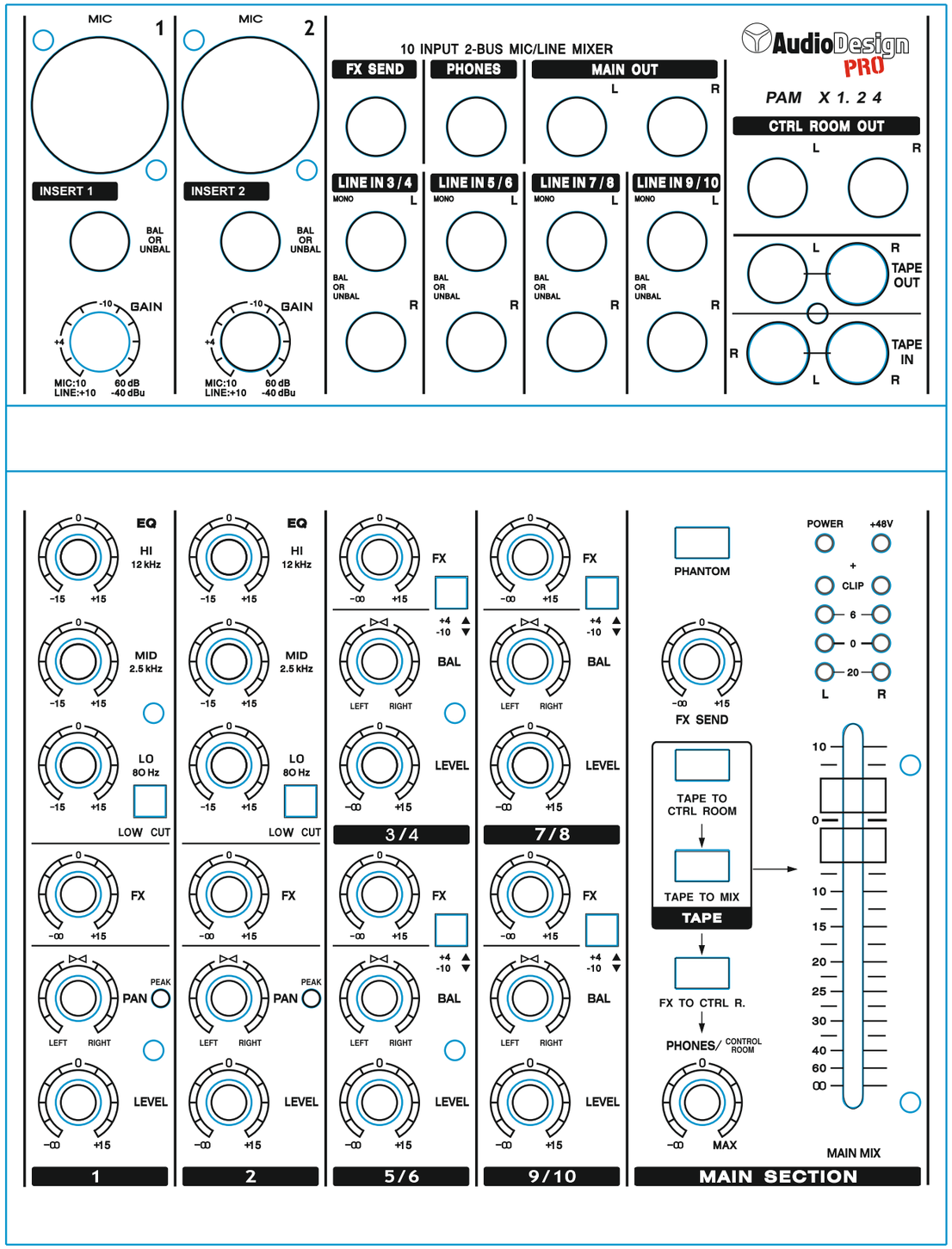
Caution: When using any electric product , precautions should always be taken, including the following:

1) Read carefully all instructions before using the product.
2) To reduce the risk, strict supervision is necessary when the product is used near children.
3) Don't use the product near to water sources like sinks, kitchens, wet floors, pools, or similar or when raining.
4) In case hearing losses or buzzing occur, please contact a doctor.
5) This products should be located so that its position does not interfere or reduce its proper ventilation.
6) This product should be site away from heat sources such as radiators or any other product that generate heat.
7) This product should be connected to a power supply line only of the type described on the operating instructions. Check always the status of the power cable.
8) In case you need to replace the fuse, unplug power supply before replacement. The fuse is located over the power INtlet and needs to be replaced with a fuse of same type and value. If the fuse blows again, please contact our service. DON'T replace it a second time with a higher value fuse.
9) Unplug power supply when left unused for a long period of time. Don't draw the cable but pull out the plug.
10) Make sure that power switch can always be easily reached.
11) Make sure that objects or liquids don't fall inside the product.
12) The product needs to be inspected by authorized or qualified personnel in case:

A- The power cable or plug are damaged
B- Objects or liquids fall inside the product
C- The product has been exposed to rain
D- The product doesn't appear to operate normally or exhibits a marked change in performance.
E- The product has fallen and been damaged.

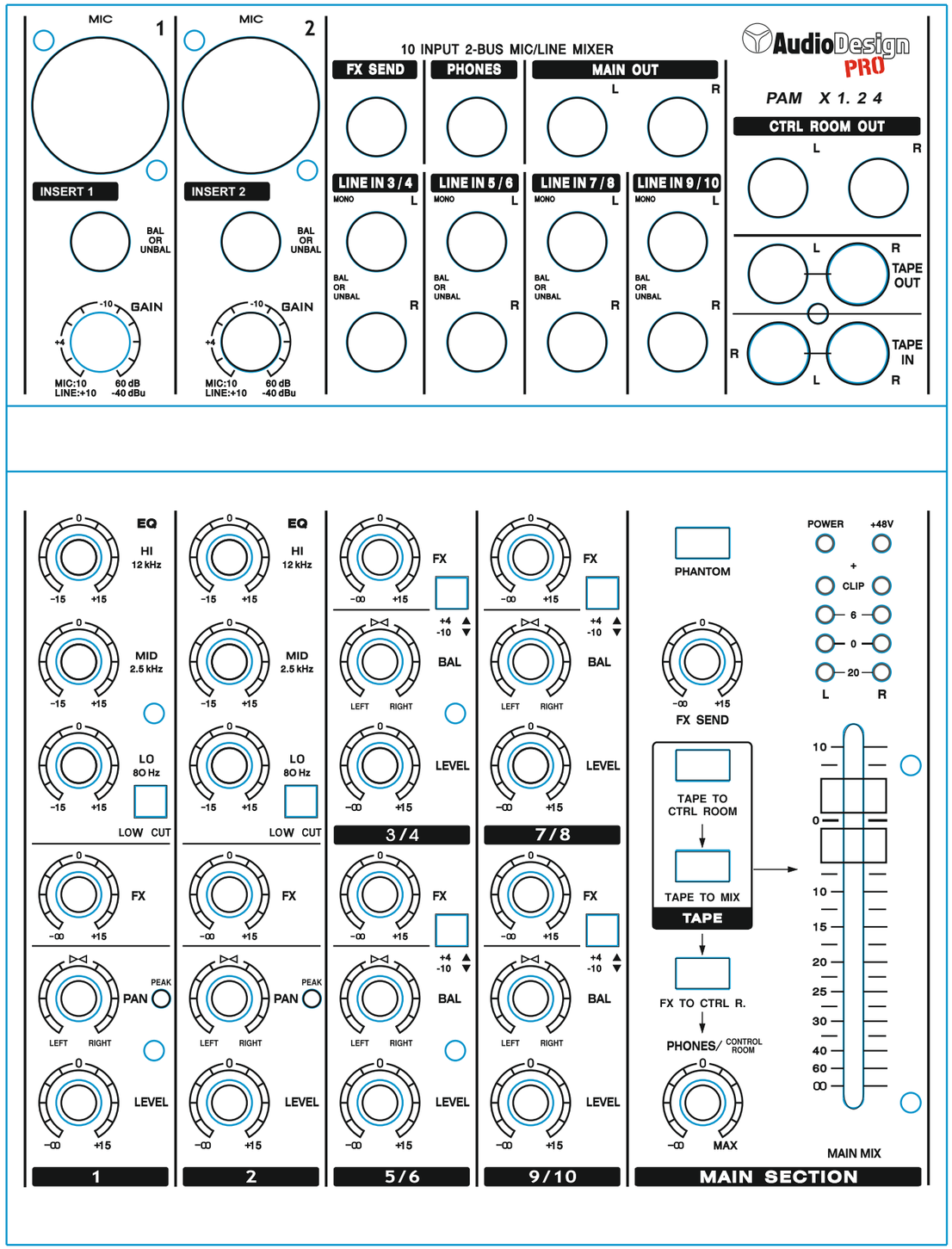
13) DON'T operate on the product, except indications on the user's manual . Please refer to authorized and qualified personnel for any other operation.
14) Caution: Don't place objects on the product's power cable or place it in a position where it could be damaged or cause interferences. Improper installation could cause fire risk and/or personal injury.

SET UP MEMO



Photocopy this page to remind set up

SET UP MEMO



Photocopy this page to remind set up

Conformity:
Audiodesign Pro products comply with presently existing directives and standards.

Service
All Audio Design PRO products have been inspected and tested before leaving the factory and , if properly used, they will work for many years. However, in case of any problem, please proceed in the following way:

Contact your dealer and inform about the defect you found
In case it won't be possible to solve the problem with the dealer, the product needs to be returned, preferably in its original packaging or in a proper packing to protect it during the transport. Purchase documents must be produced too.
Your dealer will arrange the shipment to our service centre.

QUICK START:

Start up:
1. Turn the power switch OFF.
2. Set "down" all GAIN AND LEVEL controls (all counter clockwise)
3. Center EQ controls (High - Mid - Low) and PAN controls (12 hours).
4. Set all push buttons in their "off" position (button up).
5. Set "down" all master section controls (counter clockwise and down)

Connections:
If you already know how you want to connect the mixer, go ahead and connect. If you prefer to check operation, please follow these instructions:
1. Plug a microphone or a mono signal source into one of the mono channels.
2. Or a stereo signal source into one of the stereo channels.
3. Connect MAIN OUTPUTS to an amplifier (Jack Balanced).
4. Turn power switch on. The blue led (POWER) lights up.

Mixing:
1. Set the LEVEL of each channel at "0" position
2. Turn up "MAIN MIX" to desired level, in relation to the amplifiers / speakers you are using. Preferably, don't exceed level "0" or "+6" on the LED indicators.
3. Adjust LEVEL of each channel to obtain your own mix.
6. If necessary, adjust tones and repeat above " set levels" procedures

General indications:
1. The optimum GAIN and/or LEVEL position is near to 0 while the optimum position for the MAIN MIX is the one that don't exceed level 0 / +6 on the LED level indicators.
2. In case you intend to connect further sources, please take care to turn down "MAIN MIX" slider

MONO CHANNELS

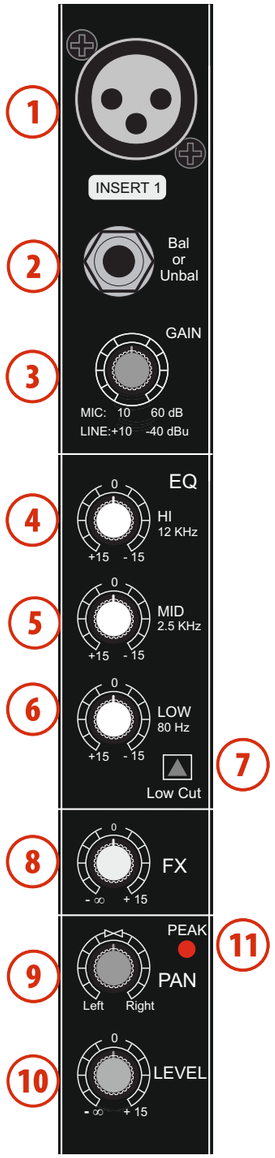


Fig 1

1. MIC: XLR balanced microphone input for dynamic and condenser microphones. By means of the XLR connector, it's possible to feed condenser microphones. Operate button "PHANTOM ON" to activate this function (located on the master sectionl) This function is monitored through the red LED switch on + 48 V located over the LED level indicators. Use of dynamic microphones with phantom power supply is generally not recommended. *

2. LINE: balanced or unbalanced line level input, 6,3 mm. Jack connector. Important: DON'T use MIC and LINE input signal at the same time !!!! *

3. GAIN: To adjust channel input level. Should always be completely turned counter clockwise during connection of any source

4. EQ HIGH: This control adjusts +/- 15 dB with a "shelving" curve shape at 12 kHz.

5. EQ MID: This control adjusts +/- 15 dB with a band center at 2.5 kHz.

6. EQ LOW: This control adjusts +/- 15 dB with a "shelving" curve shape at 80 Hz.

7. This switch activates high-pass filter at 75 Hz - 18dB/Oct

8. FX: This control adjusts signal level to send to FX SENDS, controlled through general adjustment (19). This signal is always "post" FADER

9. PAN: It adjusts the stereo scene by adjusting the signal levels to send to right and left outputs.

10. LEVEL: It adjusts the level of the channel signal.

11. PEAK: The red LED indicates CLIPPING mode.
Important: in case LED lights up indicating clipping mode, operate by reducing the TRIM

* See connection scheme on page 7

BLOCK DIAGRAM

SEPCIFICATIONS

Section	Level and datas	Connector
MONO INPUT CHANNELS		
Mic In	Sensitivity from 0 to - 60 dB Impedance 2 Kohm	XLR-F Balanced
Line In	Sensitivity from - 10 a + 4 dB Impedance 10-20 Kohm (Bal-Unbal)	Jack Balanced Jack Unbalanced
EQ	HIGH ±15 dB @ 12 KHz shelving MID ±15 dB @ 2.5 KHz peaking LOW ±15 dB @ 80 Hz shelving	
STEREO INPUT CHANNELS		
Line In	Sensitivity from - 10 a + 4 dB Impedance 20 Kohm	Jack Balanced Jack Unbalanced
MASTER SECTION		
MAIN OUT	Nominal Output level + 4 dBu	XLR / Jack Bal.
C. ROOM out	Nominal Output level + 4 dBu	Jack Unbal mono
FX SENDS1	Nominal Output level + 4 dBu	Jack Unbal mono
TAPE OUT	Nominal Output level 0 dBu Nominal Output level - 10 dBv	RCA
HEADPHONES	Min Impedance 32 ohm Max Output (2x) 193 mW	Jack Stereo
MAIN SPECIFICATIONS		
Max Level	all outputs +22 dBu	
Crosstalk	meas at 1 KHz > 82 dB	
Hum and Noise	unweighted < -93 dBu	
THD + Noise	a +4dB, 1kHz < 0,008 %	
	PAMX 1.24	
Weight	.0 Kg	
Dimensions (WxDxH)	cm	

STEREO CHANNELS

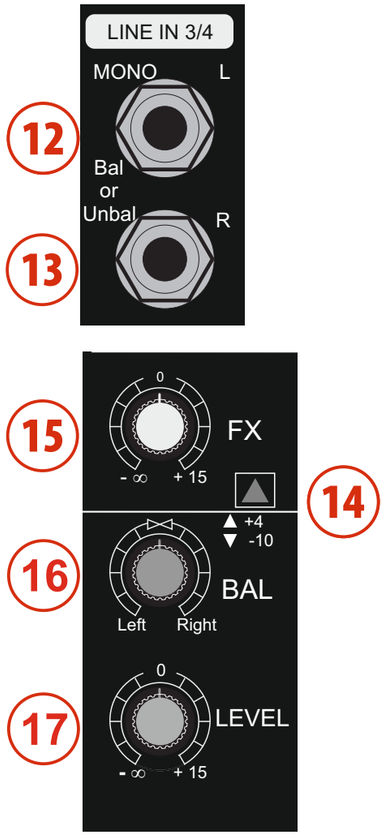


Fig 2

12. L channel of a stereo source or a mono signal can be connected to this 6,3 mm Jack input. Signal can be either balanced or unbalanced*

13. Only R channel of a stereo signal can be connected to this 6.3 mm input

14. This switch sets the channel input level (+ 4 / - 10 dB attenuation)

15. FX: This control adjusts signal level to send to FX SENDS, controlled through general adjustment (19).This signal is always "post" FADER

16. BAL: It adjusts the stereo scene by adjusting the signal levels to send to right and left outputs.

17. LEVEL: It adjusts the level of the channel signal.

* See connection scheme on page 7

MASTER SECTION

18. Phantom + 48V power supply switch

19. FX SENDS: It control the general level of the signal sent do FX SENDS output .

20. TAPE TO CTRL ROOM: Sends the RCA TAPE IN signal to Jack 6.3 CTRL ROOM OUT output (31)

21. TAPE TO MIX: Sends the RCA TAPE IN signal to MAIN MIX

22. FX TO CTRL ROOM: Sends the FX signal to Jack 6.3 CTRL ROOM OUT output (31)

23. PHONES/CTRL ROOM: Control the level of the phone output (PHONES) and of the signal to send to CTRL ROOM OUT output

24. POWER: BLU LED show that power is on

25. + 48 V: RED LED show that Phantom is on

26. LED METER: (RED LED Clipping)

27. MAIN MIX: FADER to set the left and rigth signal of main bus MAIN MIX.

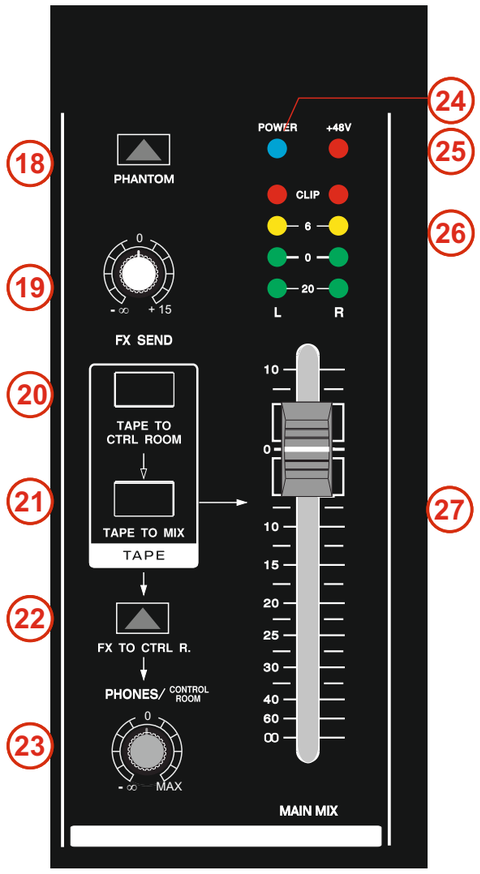


Fig 4

CONNECTIONS SECTION

28. Stereo Jack Connector for FX bus, for external signal operation (equalizer / compression, ecc)

29. Jack stereo to connect headphones

30. Balanced jack 6,3 output connections MAIN OUT

31. Balanced jack 6,3 output connections CTRL ROOM OUT

32. RCA connectors for auxiliary output (MAIN MIX)

33. RCA connectors for auxiliary input

34. Balanced jack 6,3 for stereo input (Channles 3/4 - 5/6 - 7/8 e 9/10)

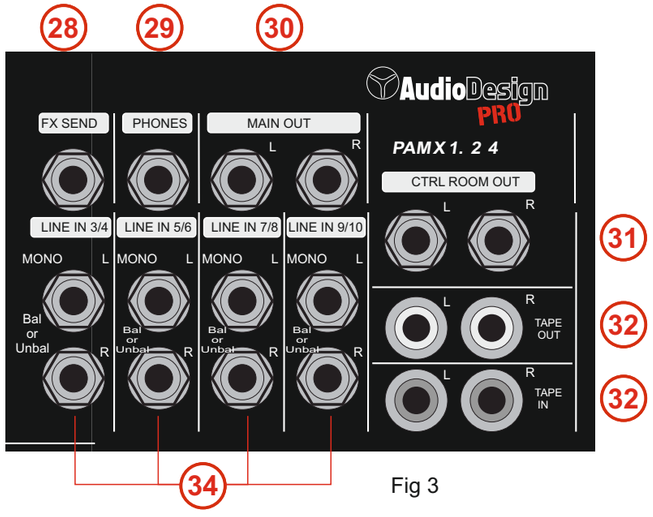
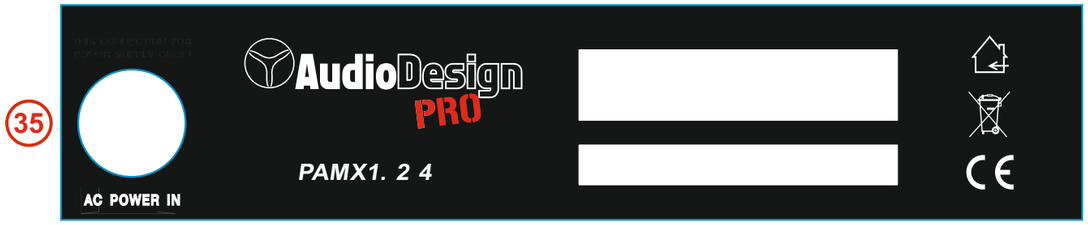


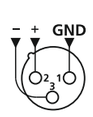
Fig 3

REAR PANNEL

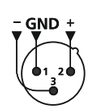


35. Power supply and fuse connection

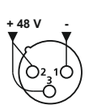
CONNECTIONS



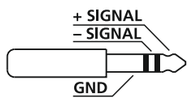
XLR 3 Female



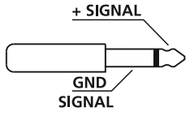
XLR 3 Male



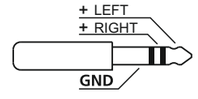
Phantom Power Supply



Jack 6,3 Balanced



Jack 6,3 UnBalanced



Jack 6,3 Stereo